

CITY OF LODI

COUNCIL COMMUNICATION

AGENDA TITLE: Specifications and Advertisement for Bids for Wood Utility Poles

MEETING DATE: November 17, 1999

PREPARED BY: Electric Utility Director

RECOMMENDED ACTION: That the City Council approve the specifications and authorize advertisement for bids for twenty-five 45-foot Class 3 Wood Utility Poles.

BACKGROUND INFORMATION: This requirement is needed for replacement of 43- to 44-year-old poles in the Calaveras Drive, Pioneer Drive, Cherokee Lane and Murray Street area. The existing poles were originally placed when the area was developed, and many are in poor condition.

This pole replacement, along with a scheduled upgrade of conductor on that line, will help maintain system reliability in that area.

FUNDING: Electric Utility Department's Operating Fund, Page E-25
Estimated Cost: \$9,500

BID OPENING: December 1, 1999

Vicki M'Attie


Alan N. Vallow, Electric Utility Director

Prepared by Joel Harris, City of Lodi
Manager, Engineering and Operations

APPROVED: 

H. Dixon Flynn - City Manager

CITY OF LODI ELECTRIC UTILITY DEPARTMENT

SPECIFICATIONS

WOOD UTILITY POLES

1.0 SCOPE

These specifications cover the minimum acceptable quality of full-length wood poles for use in the City of Lodi's overhead distribution and subtransmission system.

2.0 SPECIFICATIONS

The following specifications shall be met:

- A. Poles and methods of manufacturing shall be in accordance with American National Standards Institute (ANSI), Rural Electrification Administration (REA) and American Wood Preservers Association (AWPA) latest revision, except the spiral grain of any pole shall not exceed one complete rotation in any 30 feet.
- B. Poles shall be cut, marked and bored as specified in Section 6.0 of this specification.

3.0 TREATING REQUIREMENTS

The following requirements shall be met:

- A. Prior to treatment, poles shall be seasoned to a maximum of twenty-five percent (25%) moisture content of the sapwood based upon the oven-dried weight.
- B. Poles shall be Douglas Fir and pressure-treated with pentachlorophenol in accordance with the requirements of AWPAs Standards C1, "All Timber Products - Preservative Treatment by Pressure Processes," and C4, "Poles - Preservative Treatment by Pressure Processes," or the latest revisions thereof.
- C. The pentachlorophenol shall meet the requirements of AWPAs Standard P8, "Standards for Organic Preservative Systems," or the latest revision thereof. The carriers shall be a petroleum solvent in conformance with the latest edition of AWPAs Standard P9, "Standard for Hydrocarbon Solvents for Oil-Borne Preservative."

4.0 ALTERNATE SPECIES AND TREATMENTS

The following species and treatments which otherwise meet or exceed the requirements of these specifications will be considered as alternate:

- Species other than Douglas Fir.
- Douglas Fir pressure treated with pentachlorophenol in heavy petroleum solution.
- Copper naphthenate treatment.

5.0 HANDLING AND SHIPPING

The following requirements shall be met:

- A. After treatment, the pole surface shall not be damaged by dragging or from the use of cant hooks, peavies, tongs, cables, slings and other tools normally used in pole-handling operations.
- B. Unloading shall be performed only by crane or unloader supplied by the trucker/bidder. All shipments will be F.O.B. delivered and unloaded, Lodi, California.

6.0 ADDITIONAL REQUIREMENTS

The following requirements shall be met:

A. Marking

Poles shall be permanently marked on the face and the butt of each pole in accordance with ANSI Standards.

Exception: The distance of the pole brands from the butt shall be:

- 10 feet for 50-foot pole lengths and below;
- 14 feet for 55-foot to 75-foot pole lengths;
- 18 feet for 80-foot to 100-foot pole lengths.

B. Cutting and Boring

- Full length treated poles shall be cut and marked before treatment.
- Poles shall be cut so that the butts are approximately square.
- Poles shall be cut so that the tops have a slope in any direction of approximately two inches (2") over the diameter.